United State Fish and Wildlife Service Private Stewardship Grant Program Proposal – 2006

Title Critical Habitat Restoration in Driftless Area of Southwest Wisconsin

Objectives Increase populations of 28 federal and state listed species by restoring and

improving 1,251 acres of critical habitat on six sites within bluffland, prairie, wetland, and grassland of the Driftless Region in southwestern

Wisconsin.

Duration: Grant period: July 1, 2006 through June 30, 2009.

Summary of Costs:

	US FWS	WHIP	MVC	Totals
Contract Services	17,500	30,500	3,000	51,000
Volunteer Hours	0	0	28,882	28,882
Native Seed	12,000	7,500	12,000	31,500
Materials & Supplies	11,360	0	400	11,760
Staff Time	37,400	0	480	37,880
Machine Rental	0	0	500	500
Mileage	759	0	2968	3,727
Totals	79,019	38,000	48,230	165,249

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Mississippi Valley Conservancy

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2. Project Description:

The Mississippi Valley Conservancy, working in conjunction with local governments, private landowners, local volunteers, and the Wisconsin Department of Natural Resources, is restoring bluffland, prairie, wetland and grassland habitat on six sites owned or managed by the Conservancy including three State Natural Areas. These efforts will enhance and expand the habitat for a range of rare and declining species in the Driftless Area of southwestern Wisconsin (see table below) and are part of an overall effort to protect the species and natural communities of the Mississippi River Blufflands as represented by the Blufflands Alliance, a four state effort by six land trusts in Illinois, Iowa, Minnesota and Wisconsin to protect and restore the unique landscapes of the region.

The six areas targeted for restoration cover 1,251 acres of protected bluffland, sand prairie, goat prairie (dry prairie), riverine wetland, and grassland habitat. These areas support or provide additional habitat for 28 listed species including roosts for the federally-threatened bald eagle, critical bird habitat for migratory and resident bird species, and a range of prairie and wetland habitat for many species restricted to our region. All sites are directly adjacent to and/or have streams or rivers flowing into the Upper Mississippi River National Wildlife & Fish Refuge (UMRNWFR) and Trempealeau National Wildlife Refuge.

The overall goals of the project are:

- 1. To increase habitat for rare and declining species within the bluffland, prairie, wetland and grassland habitats of the Mississippi River Valley in southwestern Wisconsin
 - Increase habitat for 28 federal- and state-listed species as well as other important groups such as migratory birds.
- 2. To expand rare and declining natural communities within the region such as the dry prairies (goat prairies) and lowland sand prairies.
 - Restore and enhance key habitats of the Mississippi River Valley landscape including 254 acres of dry prairies (goat prairies), river terrace sand prairies, wetland prairies and sedge meadows, savannas and woodlands. An additional 150 acres will be monitored and managed for exotic species.
- 3. To increase habitat and forest connectivity on a regional basis within large landscape areas of the blufflands for species such as the federally threatened bald eagle and the range of neotropical migrants and raptors that use the Mississippi River corridor.
 - Reduce forest fragmentation and enhance forest connectivity at Roe Preserve and Sugar Creek Bluff, both of which are adjacent to the Upper Mississippi River National Wildlife & Fish Refuge, a migratory corridor declared of global importance by the American Bird Conservancy.

Tunnelville Cliffs State Natural Area- Lee Tract, Vernon County: The Lee property adds 150 acres of permanently protected land to the Kickapoo Valley Reserve Project Area. It includes high bluffs along the Kickapoo River, moist cliff communities on north-facing slopes, springs and forested seeps, creeks with waterfalls and ice caves, significant dry bluff-prairie and oak savanna communities, an old-growth white pine remnant, as well as a healthy population of northern monkshood, a plant on the federal list of endangered species. This property will be

legally dedicated (in progress) as a State Natural Area affording the property protection as a natural area in perpetuity.

Holland Sand Prairie, La Crosse County: The 61 acre Holland Sand-Prairie site sits atop an expansive Mississippi River Terrace, created about 12,000 years ago during the last ice-age, that stretches nearly 30 miles from south La Crosse to Galesville, WI. Once home to a great expanse of native sand prairie and natural dunes, the La Crosse-Galesville Terrace is now almost completely developed into cities, towns, and farms. The dunes and hollows of the Holland Sand Prairie are the only undisturbed Aeolian (wind-formed) landforms in the entire area. The Sand Prairie extends to the edge of the Mississippi River Terrace, which rises up over 100 feet from the floodplain below. The sand prairie community on this site is very impressive, with some areas remaining much as were prior to European settlement. Over 150 species of native plants grow on the prairie, including 5 that are State threatened or listed (see appendix for complete list). The Holland Sand Prairie is also a significant grassland bird site, with several State-listed bird species utilizing it regularly. This newly acquired property will become a State Natural Area (in process) in the year 2006, and be preserved for public enjoyment and education forever.

Cassville Bluffs State Natural Area-Roe Tract, Grant County: The Roe Preserve is a 244-acre preserve owned by the Conservancy (190.6 ac) and WI DNR (53 ac). This large bluffland preserve directly abuts the McGregor District of the UMRNWFR. The Upper Mississippi River Campaign of Audubon has stated that sites such as the Roe Preserve, which have connected upland and lowland forests along the River, are high priority for protection because of the high bird biodiversity in these areas. The preserve contains an eagle roost site in the older growth forest and the large expanse of woodlands provide additional habitat for neo-tropical migrants and raptors. Key restoration and protection work on site will focus on restoring 10 acres of sand prairie as well as monitoring and managing for invasive and nuisance plant species such as garlic mustard in the woodland areas (150 acres).

Sugar Creek Bluff Preserve & State Natural Area, Crawford County: This 110-acre bluffland preserve is owned by the Conservancy and contains critical dry prairie habitat for a variety of species including the timber rattlesnake, a protected species in Wisconsin. It is the southern anchor of our Sugar Creek/Rush Creek Priority area that covers about 5500 acres of some of the highest quality dry prairie (goat prairie) habitat in the entire blufflands region. The preserve also protects a ½ mile of Sugar Creek, a high quality stream flowing into the Mississippi River that supports the state-listed mud darter. Key restoration work will focus on restoring the goat prairie and savanna habitat to 40 acres, monitoring and removing invasive plants such as garlic mustard in the overall woodland area, and prescribed burning in the continuous prairie/savanna/woodland acreage of 50-80 acres.

La Crosse River Conservancy, La Crosse County: The Conservancy has 366 acres under protection (owned or easement) in this high quality riverine corridor that is the focus of a large partnership involving the Cities of Onalaska and La Crosse, Wisconsin DNR, Natural Resource Conservation Service, U.S. Fish & Wildlife Service and private landowners. Habitat ranges from high quality open wetland, sedge meadow and tamarack swamp to more impacted areas that have been hayed in past years. The project area supports the State-threatened Bell's vireo and Blanding's turtle. It is also visited regularly by the federally threatened Bald Eagle. The

focus of restoration work is primarily a 118-acre tract owned by the Conservancy and some newly acquired adjacent properties. In late 2002, we worked with NRCS to implement a restoration plan that included plugging ditches and digging scrapes across the tract. This work has been completed. Restoration work will now focus on controlling reed canary grass throughout the site and planting native prairie on 10 acres.

Northern Engraving Grasslands, La Crosse County: The Conservancy has a signed management agreement with the Northern Engraving Corporation to manage and to restore this 320-acre grassland bird preserve, one of the richest sites for these declining species in the area. More recently, MVC has negotiated a deal to purchase and permanently protect the entire site by 2006/2007. A management plan involving the Wisconsin Department of Natural Resources and the U.S. Fish & Wildlife Service was developed in 2001 to oversee the restoration of the site to a native prairie grassland to further enhance the site for grassland birds and other prairie species. To date, 80 acres of prairie has been restored. The site has been surveyed for birds since 1995 and a formal research study on grassland birds and invertebrates was initiated in 2001 to monitor the effects of restoration on the populations. Restoration work will focus on restoring prairie on an additional 120 acres over the three-year grant period by the removal of brush and invasive species, prescribed burning, and the planting of native prairie species.

The USFWS Private Stewardship Grant will provide critical funding to assist our restoration and management work at these six sites. We have already spent over \$1.85 million permanently protecting these critical areas in our region and an additional \$153,000 beginning our restoration and management work at the preserves prior to the grant period. This funding will allow the Conservancy to increase significantly our number of acres restored and managed at each site and to enhance our ability to meet the habitat needs of the rare and declining species that inhabit or use these sites for nesting, roosting, breeding and feeding. We will match this funding through NRCS WHIP grants, volunteer hours, assistance from Wisconsin DNR Endangered Resources staff, and funding provided to the Conservancy from Northern Engraving Corporation, owner of the grasslands site. This project provides key habitat restoration for rare and declining species as well as rare natural communities characteristic of the upper Mississippi River valley. We also hope to address forest fragmentation issues on the preserves by restoring open fields to native tree species and enhance the bluffland corridor adjacent to the Upper Mississippi River National Wildlife and Fish Refuge, a globally important migratory bird site.

Table 1: Threatened and State-Listed Species for Mississippi Valley Conservancy restoration work sites: 2006

A. Roe Preserve, Grant	l County	
Plants		
Yellow giant hyssop	(Agastache nepetoides)	WI Threatened
Jeweled shooting star	(Dodecatheon amethystinum)	WI Special Concern
American ginseng	(Panax quinquefolium)	WI Special Concern
Cliff goldenrod	(Solidago sciaphila)	WI Special Concern
Animals		
Bald eagle Roost Site	(Haliaeetus leucocephalus)	Federally Threatened
Timber rattlesnake	(Crotalus horridus)	WI Protected Species

Western worm anake	(Carphophis amounts)	WI Special Concern
B. Sugar Creek Bluff Pre	serve	-
Plants		
Cliff goldenrod	(Solidago sciaphila)	WI Special Concern
Heart-leaved skullcap	(Scutellaria ovata)	WI Special Concern
Upland boneset	(Eupatorium sessilifolium)	WI Special Concern
American ginseng	(Panax quinquefolium)	WI Special Concern
Golden-seal	(Hydrasus vanadensis)	W1 Special Concern
Animals	(11) to testor and and and a	CLUT SEE SANGE STREET
Timber rattlesnake	(Crotalus korrithis)	W1 Protected Species
Blue racer snake	(Coluber constrictor)	W1 Special Concern
Mud darter fish	(Etheostoma usprigene)	W1 Special Concern
Bald eagle Roost Site	(Halineetus leucocephalus)	Federally Threatened
C. La Crosse River Conse	WI A MAN	
Animals	CAMEY	
Bell's vireo	(Vireo bellii)	W1 Threatened
Blanding's Turtle	(Emydoidea blandingil)	WI Threatened
Bald eagle Roost Site	(Haliaestus leucocephalus)	Federally Threatened
Daild eagle Roost Site	(rianaeens ieucocepnans)	redefally I theatened
D. Northern Engraving G	rasslands	
Birds		
Bell's vireo	(Vireo bellii)	WI Threatened
	(Ammoulramus henslowir)	W1 Threatened
Grasshopper sparrow	(Ammodramus suvannurian)	W1 Special Concern
Northern harrier	(Corras cyaneus)	W1 Special Concern
Sedge wren	(Cestotharus platemas)	W1 Special Cancern
Yellow bellied cuckoo	(Сосситы амегісаны)	WI Special Concern
Bobolink	(Dohchanve arysmorus)	W1 Special Concern
Orchard oriole	(Feserus spurious)	W1 Special Concern
Savanna sparrow	(Passerculus sandwichensis)	WI Management Concern
Vesper sparrow	(Poneceses grantineux)	W1 Special Concern
Dickcissel	(Spiza americano)	W1 Special Concern
Clay-colored sparrow	(Spizella pallida)	W1 Management Concer-
Field sparrow	(Spazella punilla)	W1 Special Concern
Eastern meadowlark	(Sturnello magno)	W1 Special Concern
Western meadowlark	(Sturnella neglecta)	W1 Special Concern.
Plants		, and the same of
Prickly pear cactus	Opunita humifusa	WI Special Concern
E. Holland Sand Prairie	3157	
Birds		
Bell's vireo	(View hellis)	W1. Threatened
N. A.	(Ammadramus heaslown)	W1 I breatened:
an Mar	(Ammodromus vavannarum)	W1 Special Concern
***	(Dalicham's eryziverus)	W1 Special Concern
Vesper sparrow	(Popeceter grammaus)	W1 Speciar Concern
Dickcissel	(Spiza americana)	W1 Special Concern
Field sparrow	(Spizella poxilla)	Wt Special Concern
Eastern meadowlark	(Sturnella mugna)	WI Special Concern
Western meadowlark	(Sturnella neglecia)	W1 Special Concern
Plants	Anti-month (magnetast)	Coll a beginner with the said

Clustered poppy mallow	Callirhoe triangulate	WI Special Concern
Hills thistle	Cirsium hillii	WI Threatened
Prickly pear cactus	Opunita humifusa	WI Special Concern
Silky prairie clover	Petalostemum villosum	WI Special Concern
Snowy campion	Silene nivea	WIThreatened
F. Tunnelville Cliffs SNA- Lee tract		
Plants		
Northern monkshood	Aconitum noveboracense	Fed. & W1 Threatened
Sullivan's cool-wort	Sullivantia sullivantii	W1 Special Concern
Birds		
Eastern meadowlark	(Sturnella magna)	WI Special Concern
Field sparrow	(Spizella pusilla)	WI Special Concern

3. Project Statement of Work:

- a. We will restore, protect, and manage 1,251 acres of bluffland forest, dry prairie (goat prairie), sand prairie, grassland, riverine wet prairie, and sedge meadow to enhance and support 28 listed species as well as critical species groups such as migratory birds. For specific activities, see item c. below.
- b. Although the grant project is supervised by the Conservancy's Executive Director, the primary work will be coordinated by the Conservancy's Director of Land Projects and Stewardship with assistance from MVC Staff, DNR Endangered Resources staff (at State Natural Area sites), Conservancy volunteer stewards, and other partner volunteers. Northern Engraving Corporation will provide matching funding to the Conservancy for the prairie restoration work at its grasslands.

Project activities & monitoring

Tunnelville Cliffs SNA - Lee Tract: 150 acres protected: all targeted to restoration and monitoring

Primary restoration areas:

1/5th acre northern monkshood site

20 acres of prairie and savanna

130 acres of woodland

- Protect northern monkshood site with monitoring, fencing, and signage
- Annual restoration burning of 20 acre goat prairie
- Invasive tree, shrub, and plant removal with ongoing monitoring on 150 acres
- Boundary fencing and signage to keep motorized vehicles and neighboring livestock off property

Holland Sand Prairie: 61 acres protected and targeted for restoration, control and monitoring.

- Annual restoration burning of 30 acres
- Removal of invasive trees, shrubs, and non-native plants by cutting, mowing, and treating with herbicide on 30 acres
- Prepare sites to seed and over-seed 5 acres per year
- Rare prairie plant rescue from adjacent land scheduled for housing development (5 acres)

Cassville Bluffs SNA- Roe Preserve: 250 acres protected: 10 acres targeted for restoration & 150 for exotics monitoring and control

Primary restoration areas:

10 acres (old fields): prairie restoration and planting

150 acres (woodland): monitoring, treating, removal of invasive plants including garlic mustard

- Increase sand prairie area by 10 acres to provide more habitat for prairie dependent species.
- Monitor, manage, and protect entire woodland area from garlic mustard and other invasives (150 acres)
- Manage use of restored areas by woodland and prairie species, especially birds and invertebrates

Sugar Creek Bluff: 120 acres protected: 90 acres targeted for restoration/exotics monitoring and control

Primary restoration areas:

40 acres (savanna/dry prairie, approximate 5 acres currently restored): brush removal; prescribed burn on remaining acreage

50 acres: (woodland) monitoring, treating, and removal of garlic mustard and other invasives; prescribed burns

- Continue restoration of primary dry prairie/savanna area to increase to 40 acres, thereby increasing habitat for declining prairie plant and animal species including existing and potential reptiles (den sites).
- Continue to restore and manage12-acre field in lower preserve to enhance forest connectivity and stream habitat for mud darter.
- Monitor increase of populations of rare plants and determine increase in use by animal species, especially reptiles and birds.

La Crosse River Conservancy: 366 acres protected: 10 acres targeted for restoration Primary restoration areas:

10 acres of 366-acre site: control reed canary grass and increase native prairie habitat. Site had previous wetland restoration activities (plugging ditches and digging scrapes) on entire area.

- Further enhance wetland restoration site by monitoring and treating remaining reed canary grass and expanding prairie/sedge meadow areas by 10 acres to provide more habitat for a host of species including Blanding's turtle and nesting bird species such as sandhill cranes.
- Monitor and maintain shrub habitat along the upland border to enhance habitat for Bell's vireo.

• With assistance of volunteers and DNR, monitor use of restored area by wetland species, especially birds and amphibians.

Northern Engraving Grasslands: 320 acres managed: 120 acres targeted for restoration 120 acres targeted for prairie restoration (40 acres per year): Majority of lowland sand prairie site is non-native grasses with encroaching brush and planted shrub rows. Prairie restoration is based on multi-partner Management Plan developed in 2001 to restore native grassland system and enhance area for grassland birds.

- Remove brush from 120 acres except for targeted small shrub areas which will be left for landscape diversity and to provide habitat for Bell's vireo.
- Plant native prairie species on 40 acres/year according to management plan.
- Continue bird monitoring study to determine effects on the existing animal populations and use of newly restored areas.

d. Timeline:

2006:

Months 7-12: Prairie/Savanna brush cutting/treating at Sugar Creek Bluff SNA, Holland Sand Prairie, Tunnelville Cliffs SNA, and Cassville Bluffs SNA: Invasives and Garlic Mustard Monitoring and Control at all properties; Fall prairie plantings at Northern Engraving Grasslands and Holland Sand Prairie.

2007:

Months 1-3: Prairie/Savanna brush cutting/treating at Sugar Creek Bluff SNA, Holland Sand Prairie, Cassville Bluffs SNA, and Tunnelville Cliffs SNA; Invasives and Garlic Mustard Monitoring & Control at Cassville Bluffs SNA and Sugar Creek Bluff SNA; Site preparation for prairie planting at Northern Engraving Grasslands; Prescribed burn at Sugar Creek Bluff SNA on prairie/savanna.

Months 3-6: Bird Monitoring at Northern Engraving Grasslands; Restoration burning at the Holland Sand Prairie, Northern Engraving Grasslands, Sugar Creek Bluff SNA, Tunnelville Cliffs SNA, and Cassville Bluffs SNA; Reed canary monitoring and control at La Crosse River Conservancy; prairie plant rescue with tree spades at the Holland Sand Prairie.

Months 7-12: Prairie/Savanna brush cutting/treating at Sugar Creek Bluff SNA, Holland Sand Prairie, Tunnelville Cliffs SNA, and Cassville Bluffs SNA; Invasives and Garlic Mustard Monitoring and Control at all properties; Fall prairie plantings at the Northern Engraving Grasslands, Cassville Bluffs SNA, the La Crosse River Conservancy, and the Holland Sand Prairie.

2008:

Months 1-3: Prairie/Savanna brush cutting/treating at Sugar Creek, Holland Sand Prairie, Cassville Bluffs SNA, and Tunnelville Cliffs; Garlic Mustard Monitoring & Control at Roe/Sugar Creek; Site preparation at Northern Engraving Grasslands; Prescribed burn at Sugar Creek on prairie/savanna.

Months 3-6: Bird Monitoring at Northern Engraving Grasslands; Restoration burning at the Holland Sand Prairie, Northern Engraving Grasslands, Sugar Creek Bluff SNA, Tunnelville Cliffs SNA, and Cassville Bluffs SNA; Reed canary monitoring and control at La Crosse River Conservancy.

Months 7-12: Prairie/Savanna brush cutting/treating at Sugar Creek Bluff SNA, Holland Sand Prairie, Tunnelville Cliffs SNA, and Cassville Bluffs SNA; Invasives and Garlic Mustard Monitoring and Control at all properties; Fall prairie planting at Northern Engraving Grasslands and the Holland Sand Prairie.

2009:

Months 1-3: Prairie/Savanna brush cutting at Sugar Creek, Holland Sand Prairie and Tunnelville Cliffs; Invasives and Garlic Mustard Monitoring & Control at Cassville Bluffs SNA, Sugar Creek Bluff SNA and Tunnelville Cliffs SNA; Site preparation at Northern Engraving Grasslands; Prescribed burn at Sugar Creek on Prairie/savanna; Spring planting.

Months 3-6: Bird Monitoring at Northern Engraving Grasslands; Restoration burning at the Holland Sand Prairie, Northern Engraving Grasslands, Sugar Creek Bluff SNA, Tunnelville Cliffs SNA, and Cassville Bluffs SNA; Reed canary monitoring and control at La Crosse River.

e. Overall Project Maintenance:

Because the Conservancy owns or has a management agreement on all lands, the maintenance of these restorations and the sites as a whole is indefinite and ongoing. Even if the Conservancy were to transfer the site to another conservation entity, restrictions would be placed on the deed or an easement would be in place to ensure the ongoing management and protection of the natural areas. In addition, the three State Natural Area sites have management restrictions agreed to by the Conservancy and the DNR to ensure continued stewardship of the lands.

- 4. Project Budget Please see Appendix A
- 5. Supporting Documentation: see enclosed maps

Halland Can'd Bustate		Costs	US FWS	WHIP	MVC	Total
Holland Sand Prairie						
Restor. Burning		A 14 A 4 B = =				
	tract	3 X \$1,500		3,500	1,000	4,500
Volur		72 Hours @ \$14			1,008	1,008
Staff -	Time	48 hr @ \$40	1,920			1,920
Invasives Removal						
Volur		258 hours @ \$14			3,612	3,612
Staff 7	Γime	174 hr @ \$40	6,960			6,960
Seeding						
Seed		\$7,500		5,500	2,000	7,500
Volur		36 hours @ \$14			504	504
Machine Ro		\$500			500	500
Staff 7	Time	83 hr @ \$40	3,320			3,320
Fencing						
Mate	rials	\$3,000	3,000			3,000
Volur	nteer	72 Hours @ \$14			,008	1,008
Staff 1	Γime	8 hr @ \$40	320		·	320
Transplanting w/ Spade		•				
	tract	4 X \$1,500	6,000			6,000
Staff		8 hr @ \$40	,		320	320
Mileage		20mi RT X 40 @ \$0.40			320	320
<u> </u>			21,520	9,000	10,272	40,792
			,	-,	-,	,
		Costs	US FWS	WHIP	MVC	Total
Tunnelville Cliffs SNA - Lee Trac	et					
Restor. Buring						
•	tract	3 X \$2000		6,000		6,000
Volur		36 hours @ \$14		5,555	504	504
Staff 1		48 hr @ \$40	1,920		•	1,920
nvasives Removal			.,020			.,
Volur	iteer	80 hr @ \$14			1,120	1,120
Sup		\$200			200	200
Staff 1		8 hr @ \$40	320		200	320
Northern Monkshood Protection	11110	0 III @ \$-10	020			020
Volur	nteer	33 hr @ \$14			462	462
Staff 1		4 hr @ \$40			160	160
Fencing & Signage	. IIII C	7 111 (2) 440			100	100
Mate	riale	\$1,000	1,000			1,000
Volur		36 hours @ \$14	1,000		504	504
Staff 1		_	640		304	640
	wie.	16 hr @ \$40	040		360	360
Mileage		100mi. RT X 9 @ \$0.40	3,880	6,000	3,310	13,190
			3,000	0,000	3,310	13,130
		Costs	IIC EIMC	WHIP	MVC	Total
Northern Engraving		Costs	US FWS	WILL	WVC	Total
Northern Engraving						
Seeding Sood (Cost	\$20,000	10 000		10 000	20 000
Seed (\$20,000	10,000		10,000	20,000
Volum Stoff T		48 hr @ \$14	2 0 4 0		672	2 040
Staff T	ime	96 hr @ \$40	3,840			3,840
Restor. Burning		A V A 4 FAA		0.000		0.000
Cont		6 X \$1,500		9,000		9,000
Volun		36 hours @ \$14			504	504
Staff T	ime	48 hr @ \$40	1,920			1,920
nvasives Removal						
l						1/20/0

Appendix A Budget Detail	Pi	US Fish and Wildlife S rivate Stewardship Gran				ssippi Valley Conservancy
	Contract	6 X \$1,500	6,000			6,000
	Volunteer	72 Hours @ \$14	5,125		1,008	1,008
	Staff Time	16 hr @ \$40	640		.,	640
Monitoring	• • • • • • • • • • • • • • • • • • • •					
3	Volunteer	216 hr @ \$14			3,024	3,024
Fencing & Signage					•	•
	Materials	\$4,000	4,000			4,000
	Volunteer	36 hours @ \$14			504	504
	Staff Time	16 hr @ \$40	640			640
Mileage		24 mi RT X 22 @ \$0.40	211			
			27 251	9,000	15,712	51,963
		Costs	US FWS	WHIP	MVC	Total
Sugar Creek Bluff SNA Restor. Buring						
	Contract	5 X \$1,500		7,500		7,500
	Volunteer	15 hours @ \$14			210	210
	Staff Time	48 hr @ \$40	1,920			1,920
Invasives Removal		_				
	Volunteer	22 Hours @ \$14			308	308
	Supplies	\$200	200			200
	Staff Time	66 hr @ \$40	2,640			2,640
Garlic Mustard Removal			•			·
	Volunteer	400 hr @ \$14			5,600	5,600
	Supplies				•	•
	Staff Time	8 hr @ \$40	320			320
Fencing & Signage		•				
	Materials	\$500	500			500
	Volunteer	36 hours @ \$14			504	504
	Staff Time	4 hr @ \$40	160			160
Mileage		80mi RT X 16 @ \$0.40	512			512
			6,252	7,500	6,622	20,374
		Costs	US FWS	WHIP	MVC	Total
La Crosse River Wetland	s	Costs	US FWS	WHIP	MVC	Total
La Crosse River Wetland Invasives Removal			US FWS	WHIP		
	Volunteer	36 Hours @ \$14		WHIP	MVC 504	504
	Volunteer Supplies	36 Hours @ \$14 \$160	160	WHIP		504 160
Invasives Removal	Volunteer	36 Hours @ \$14		WHIP		504
	Volunteer Supplies Staff Time	36 Hours @ \$14 \$160 25 hr @ \$40	160	WHIP	504	504 160 1,000
Invasives Removal	Volunteer Supplies Staff Time Volunteer	36 Hours @ \$14 \$160 25 hr @ \$40 143 hr @ \$14	160 1,000	WHIP		504 160 1,000 2,002
Invasives Removal Trail Maintenance	Volunteer Supplies Staff Time	36 Hours @ \$14 \$160 25 hr @ \$40	160	WHIP	504	504 160 1,000
Invasives Removal	Volunteer Supplies Staff Time Volunteer Staff Time	36 Hours @ \$14 \$160 25 hr @ \$40 143 hr @ \$14 8 hr @ \$40	160 1,000	WHIP	504 2,002	504 160 1,000 2,002 320
Invasives Removal Trail Maintenance	Volunteer Supplies Staff Time Volunteer Staff Time Volunteer	36 Hours @ \$14 \$160 25 hr @ \$40 143 hr @ \$14 8 hr @ \$40 160 hr @ \$14	160 1,000 320	WHIP	504	504 160 1,000 2,002 320 2,240
Invasives Removal Trail Maintenance Land Use Study	Volunteer Supplies Staff Time Volunteer Staff Time	36 Hours @ \$14 \$160 25 hr @ \$40 143 hr @ \$14 8 hr @ \$40	160 1,000	WHIP	504 2,002	504 160 1,000 2,002 320
Invasives Removal Trail Maintenance	Volunteer Supplies Staff Time Volunteer Staff Time Volunteer Staff Time	36 Hours @ \$14 \$160 25 hr @ \$40 143 hr @ \$14 8 hr @ \$40 160 hr @ \$14 16 hr @ \$40	160 1,000 320 640	WHIP	504 2,002	504 160 1,000 2,002 320 2,240 640
Invasives Removal Trail Maintenance Land Use Study	Volunteer Supplies Staff Time Volunteer Staff Time Volunteer Staff Time Contract	36 Hours @ \$14 \$160 25 hr @ \$40 143 hr @ \$14 8 hr @ \$40 160 hr @ \$14 16 hr @ \$40 \$2,000	160 1,000 320	WHIP	504 2,002 2,240	504 160 1,000 2,002 320 2,240 640 2,000
Invasives Removal Trail Maintenance Land Use Study	Volunteer Supplies Staff Time Volunteer Staff Time Volunteer Staff Time Contract Volunteer	36 Hours @ \$14 \$160 25 hr @ \$40 143 hr @ \$14 8 hr @ \$40 160 hr @ \$14 16 hr @ \$40 \$2,000 15 hr @ \$14	160 1,000 320 640 2,000	WHIP	504 2,002	504 160 1,000 2,002 320 2,240 640 2,000 210
Invasives Removal Trail Maintenance Land Use Study Wet Prairie Restoration	Volunteer Supplies Staff Time Volunteer Staff Time Volunteer Staff Time Contract	36 Hours @ \$14 \$160 25 hr @ \$40 143 hr @ \$14 8 hr @ \$40 160 hr @ \$14 16 hr @ \$40 \$2,000	160 1,000 320 640	WHIP	504 2,002 2,240	504 160 1,000 2,002 320 2,240 640 2,000
Invasives Removal Trail Maintenance Land Use Study	Volunteer Supplies Staff Time Volunteer Staff Time Volunteer Staff Time Contract Volunteer Staff Time	36 Hours @ \$14 \$160 25 hr @ \$40 143 hr @ \$14 8 hr @ \$40 160 hr @ \$14 16 hr @ \$40 \$2,000 15 hr @ \$14 8 hr @ \$40	160 1,000 320 640 2,000 320	WHIP	504 2,002 2,240	504 160 1,000 2,002 320 2,240 640 2,000 210 320
Invasives Removal Trail Maintenance Land Use Study Wet Prairie Restoration	Volunteer Supplies Staff Time Volunteer Staff Time Volunteer Staff Time Contract Volunteer Staff Time Materials	36 Hours @ \$14 \$160 25 hr @ \$40 143 hr @ \$14 8 hr @ \$40 160 hr @ \$14 16 hr @ \$40 \$2,000 15 hr @ \$14 8 hr @ \$40	160 1,000 320 640 2,000	WHIP	504 2,002 2,240 210	504 160 1,000 2,002 320 2,240 640 2,000 210 320 2,000
Invasives Removal Trail Maintenance Land Use Study Wet Prairie Restoration	Volunteer Supplies Staff Time Volunteer Staff Time Volunteer Staff Time Contract Volunteer Staff Time Materials Volunteer	36 Hours @ \$14 \$160 25 hr @ \$40 143 hr @ \$14 8 hr @ \$40 160 hr @ \$14 16 hr @ \$40 \$2,000 15 hr @ \$14 8 hr @ \$40 \$2,000 36 hours @ \$14	160 1,000 320 640 2,000 320 2,000	WHIP	504 2,002 2,240	504 160 1,000 2,002 320 2,240 640 2,000 210 320 2,000 504
Invasives Removal Trail Maintenance Land Use Study Wet Prairie Restoration	Volunteer Supplies Staff Time Volunteer Staff Time Volunteer Staff Time Contract Volunteer Staff Time Materials	36 Hours @ \$14 \$160 25 hr @ \$40 143 hr @ \$14 8 hr @ \$40 160 hr @ \$14 16 hr @ \$40 \$2,000 15 hr @ \$14 8 hr @ \$40 \$2,000 36 hours @ \$14 16 hr @ \$40	160 1,000 320 640 2,000 320 2,000 640	WHIP	504 2,002 2,240 210	504 160 1,000 2,002 320 2,240 640 2,000 210 320 2,000 504 640
Invasives Removal Trail Maintenance Land Use Study Wet Prairie Restoration	Volunteer Supplies Staff Time Volunteer Staff Time Volunteer Staff Time Contract Volunteer Staff Time Materials Volunteer	36 Hours @ \$14 \$160 25 hr @ \$40 143 hr @ \$14 8 hr @ \$40 160 hr @ \$14 16 hr @ \$40 \$2,000 15 hr @ \$14 8 hr @ \$40 \$2,000 36 hours @ \$14	160 1,000 320 640 2,000 320 2,000	WHIP	504 2,002 2,240 210	504 160 1,000 2,002 320 2,240 640 2,000 210 320 2,000 504

		Costs	US FWS	WHIP	MVC	Total
Cassville Bluffs SNA						
Invasives Removal						
	Volunteer	60 hours @ \$14			840	840
	Supplies	\$200			200	200
	Staff Time	71 hr @ \$40	2,840			2,840
Fencing & Signage			•			-
	Supplies	\$500	500			500
	Contract	\$3,500	3,500			3,500
	Volunteer	22 hours @ \$14			308	308
	Staff Time	16 hr @ \$40	640			640
Trail Maintenance						
	Contract	\$2,000			2,000	2,000
	Volunteer	15 hr @ \$14			210	210
	Staff Time	16 hr @ \$40	640			640
Restor, Buring		72 111 😅 🗸 11				
	Contract	3 X \$1,500		4,500		4,500
	Volunteer	36 hr @ \$14		1,000	504	504
	Staff Time	48 hr @ \$40	1,920			1,920
Seeding			1,020			1,000
3	Seed Cost	\$4,000	2,000	2,000		4,000
	Volunteer	36 hr @ \$14	_,	,	504	504
	Staff Time	24 hr @ \$40	960			960
Mileage	260	mi RT X 22 @ \$0.40			2,288	2,288
			13,000	6,500	6,854	26,354
Grand Totals			79,019	38,000	48,230	165,249

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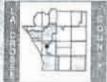
LaCrosse River Conservance

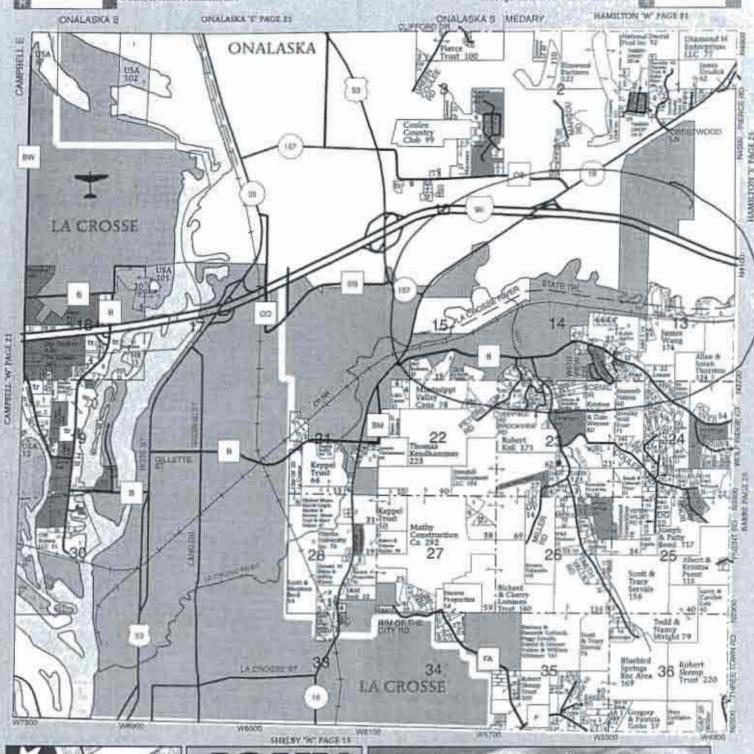
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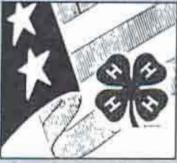
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LA CROSSE COUNTY ZONNES, PLANSING & LAND REPORTANTION DEPT.

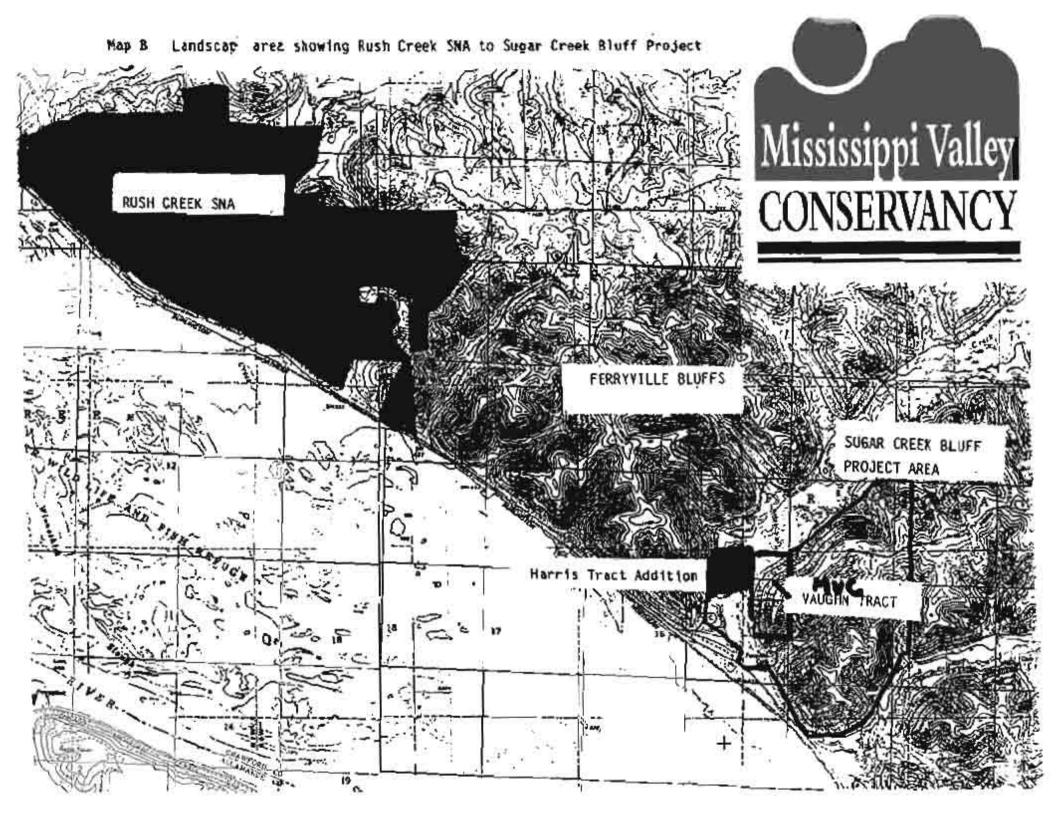


SCALE: 1" - 500"

1993 & 2000 FLIGHT

CREATED BY: DAN LEIS DATE: 07-06-2006





CBSNA-Roe Clart See Page 25 Kashrym Richard & Colleen 120 Kirschhaum 300 Buy & Dewt Joyce Fabrack A Robert Jerry Director Director & Kent A Joyce Kievin & 240 Mumm Mumm the hand 120 8 funk & Lorent are Juhn 277.2 163 234.6 11.7 ň OI. Adrian Lympe Walter Timothy 194.3 Lavins le Unda Dresmo Mumm đe: 200 8 & Hobert Riedi Albert Birmann Wiest 215.7 Bi-fi Resettina Kathryn 50 340 Eckonin Cary Demi2d 8) Ralph Wie Mathilde S. Saimer Amily & C Denute 60 Yunk Kirschhus 334.5 159.3 Wiel 320 199.7 158.4 108 157.2 13 15 346.7 440 Ray tunk **Eckelein** 217.5 Fatrick g-40 Dariech Startha & Lay 157 Brad & Bettlu &c Kadideen CASSVILLE Wint sta Tuver Berech 160 Charles & Dibra & Chelly 79.3 Jacquetyn 144.7 211.5 Clayton County, IA

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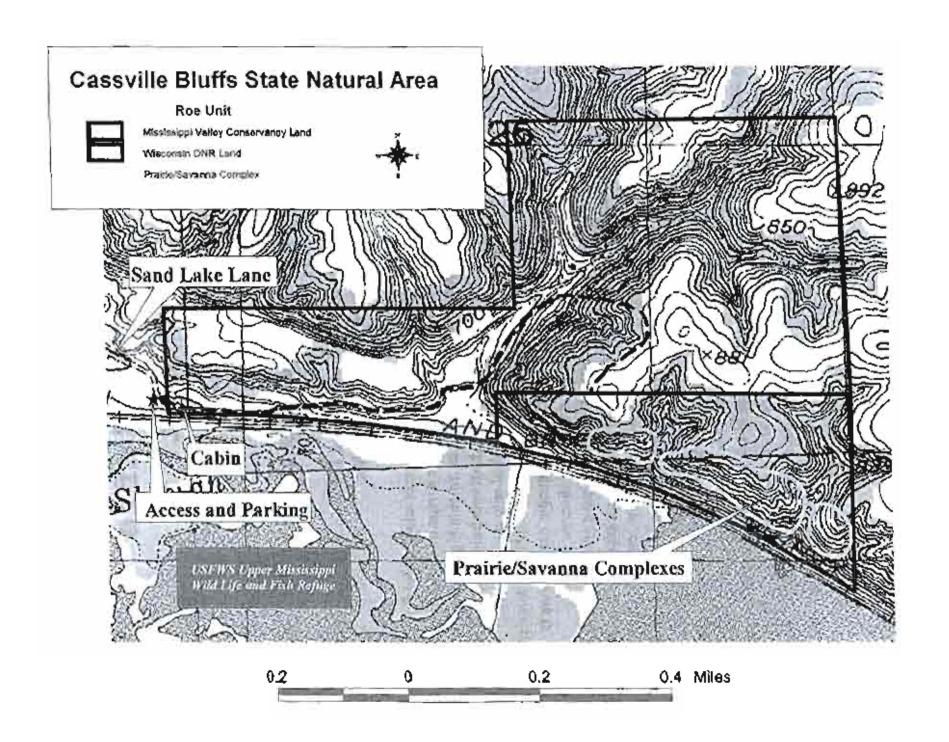
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ACE 5953W



Cassville Bluffs Roe Unit

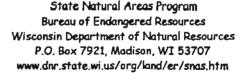
STATE NATURAL AREA

Location: Grant County. T3N-R5W, Sections 26 S\(\frac{1}{4}\)SE\(\frac{1}{4}\), 35 N\(\frac{1}{2}\)NE\(\frac{1}{4}\). 244 acres.

Access: From the intersection of State Highways 81 and 133 in Cassville, go south and east on 133 2.6 miles, then south on Sand Lake Lane 0.3 miles.

Description: Cassville Bluff's features a rare expanse of undeveloped bluff and sand terrace overlooking the Mississippi River that supports linear strips of dry prairie and rare chinquapin oak savanna. Extremely important and unique to this high quality natural area are the uplands, which remain connected to the river bottoms below and are not separated by any roads or highways. Currently, Wisconsin has only one mile of protected river front property that has no highway between the bluffs and Mississippi River. One of the rarest savanna types in Wisconsin, the chinquapin oak savanna is dominated by chinquapin oak with some bur oak and contains a diverse, intact groundlayer. The dry prairie is also diverse dominated by side oats grama with little bluestem, Indian grass, needle grass, big bluestem, and Panicum grasses. Prairie forbs include flowering spurge, western sunflower, cylindrical blazing star, compass plant, leadplant, and short green milkweed. The site also harbors the rare jeweled shooting star (Dodecatheon amethystinum) and there are scattered dolomite outcroppings several meters high that support numerous fern species including rusty woodsia and smooth cliffbrake. Along the bluff is an older growth forest that is an important roosting site for the federally threatened bald eagle (Haliaeetus leucocephalus). The bluffs are also important habitat for rare animals including two snakes; the timber rattlesnake (Crotalus horridus) and western worm snake (Carphophis amoenus). There are numerous agricultural and old fields that will be restored to native habitat in the future. Cassville Bluffs is owned jointly by the DNR and the Mississippi Valley Conservancy and was designated a State Natural Area in 2002:

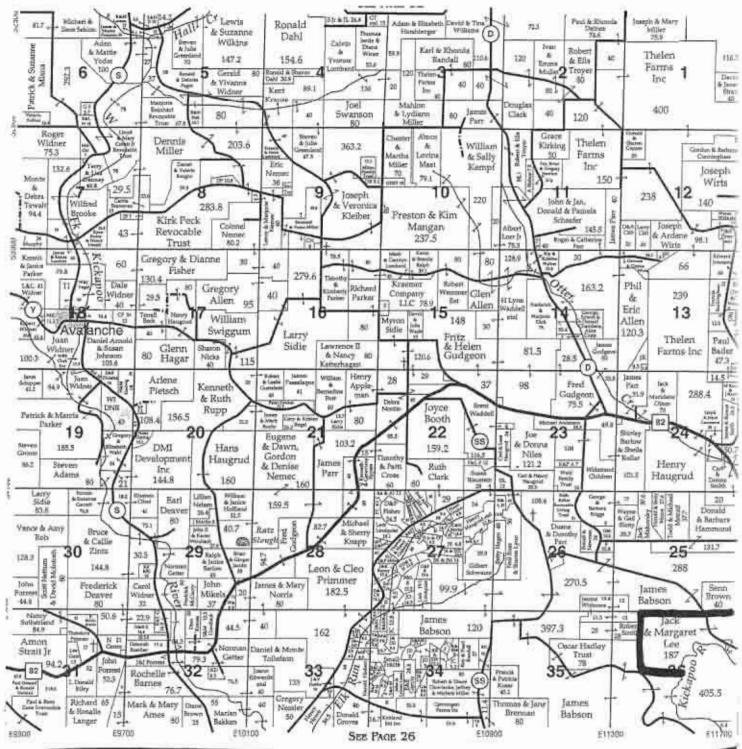






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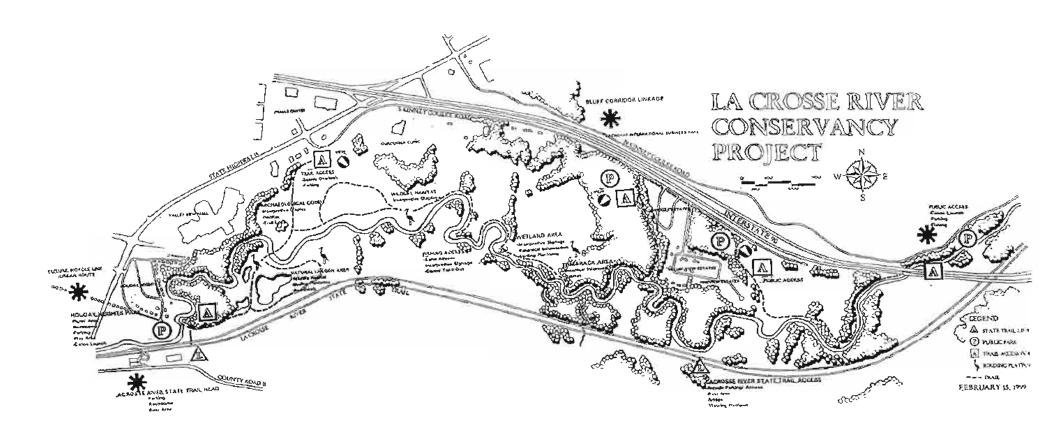
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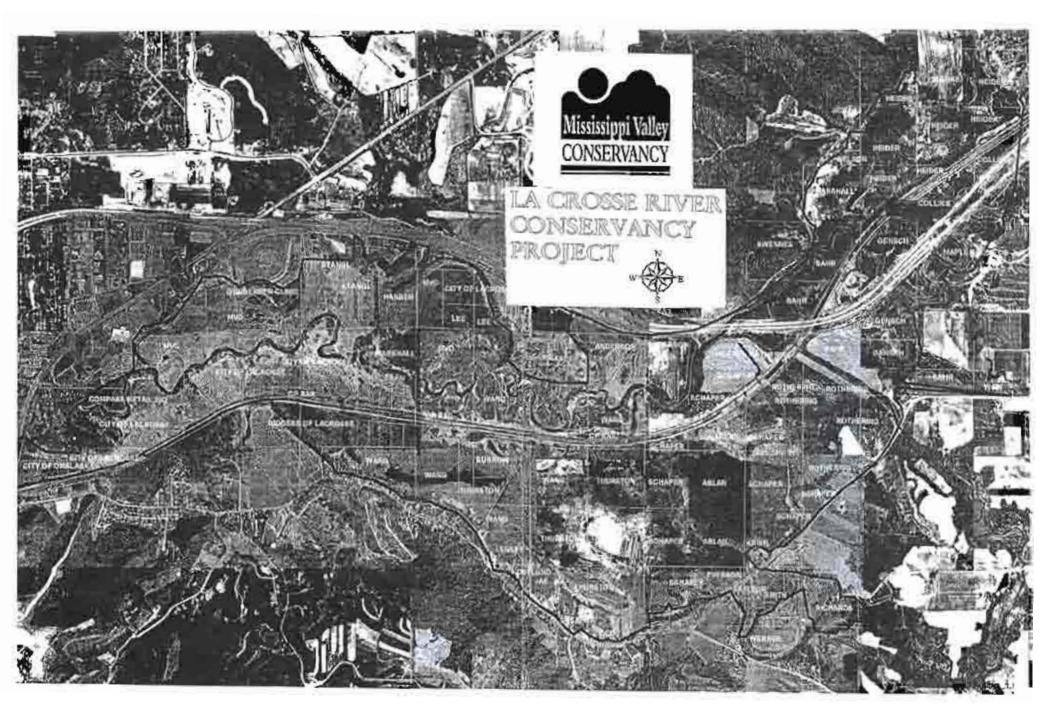
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Holland Sand Prairie Plant List

November, 2004	George E. Howe, Conse	rvation Specialist, MVC
Common Name	Scientific Name	Status
Alum Root	Heuchera richardsonii	Native
Asparagus, wild	Asparagus officinalis	Exotic
Beach wormwood	Artemisia caudata	Native
Bergemot, wild	Monarda fistulosa	
Bicknellii sedge	Carex bicknellii	
Big bluestem	Andropogon gerardi	
Black-eyed Susan	Rudbeckia hirta	
Blue Vervain	Verbana hastata	
Blunt-leaved milkweed	Asclepias amplexicaulis	
Little bluestaem	Andropogon scoparius	
Bur cucumber	Sicyos angulates	
Butterfly milkweed	Asclepias tuberosa	Native
Canadian milk vetch	Astragalus canadensis	Native
Choke cherry	Prunus virginiana	Native
	Paspalum ciliatifolium	
Clammy ground-cherry	Physalis heterophylla	Native
Clustered poppy mallow	Callirhoe triangulata	Special concern, globally rare
Common evening-primrose	Oenothera biennis	Native
Common ironweed	Vernonia fasciculata	Native
Common milkweed	Asclepias syriaca	Native
Common spiderwort	Tradescantia ohiensis	Native
Common St. John's wort	Hypericum perforatum	Native
Coreopsis	Coreopsis palmata	Native
	Baptisia bracteata	
	Monarda punctata	
	Kuhnia eupatorioides	
	Krigla biflora	
	Smilacina racemosa	
	Comandra umbellata	
Tarrest	Equisetum arvense	
-	Antennaria neglecta	
Fire-on-the-mountain	Euphorbia cyathophora	Native
Flowering spurge	Euphorbia corollata	Native
Fringed puccoon	Lithospermum incisum	Native
i ninged paceboli	Tephrosia virginiana	148046
Grey goldenrod	Solidago nemoralis	Native
Grooved yellow flax	Linum sukatum	Native
Ground nut		Ivauve
Ground hat	Apìos americana Bouteloua hirsuta	
Hoiny handsypood		Matico
Hairy hawkweed	Hieracium longlpilum	Native
Heath aster	Aster ericoides	Native .
Hills thistle	Cirsium hillii	State threatened
Hoary alyssum		Exotic
Hoary puccoon	Lithospermum canescens	Native
Hairy puccoon	Lithospermum caroliniense	Native
Hoary vervain	Verbana stricta	Native
Horse nettle	- 1a	
ndian grass	Sorghastrum nutans	Native
ndian hemp	Apocynum cannabinum	Native
June grass	Koeleria macrantha	Native
_ance-leaved ground-cherry	Physalis virginiana	Native
_ate figwort	Scrophularia marilandica	Native
eadplant ow bindweed	Amorpha canescens Convolvulus spithameus	Native Native

Missouri goldenrod	Solidago missouriensis	Native
Needle grass	Stipa spartea	Native
New Jersey tea	Ceanothus herbaceus	Native
Nodding spurge	Euphorbia maculata	Native
Old field balsam	Gnaphaluim obtusifolium	Native
Partrige pea	Chamaecrista fasciculata	Native
Pasque flower	Anemone patens	Native
Pasture thistle	Cirsium discolor	Native
Rough blazing star	Liatris aspera	Native
Prairie blue-eyed grass	Sisyrinchium campestre	Native
Prairie cinquefoil	Potentilla arguta	Native
Prairie larkspur	Delphinium virescens	Native
Prairie panic-grass	Panicum leibergii	native
Prairie smoke	Geum triflorum	Native
Prairie sunflower	Helianthus pauciflorus	Native
Prairie thistle	Cirsium hillii	Native
Prairie violet	Viola pedatifida	Native
Prickly pear cactus	Opunita humifusa	Special concern
Purple Lovegrass	Eragrostis spectabilis	Native
Purple prairie clover		Native
	Petalostemum purpureum	
Pursh plantain	Plantago purshii	Native
Racemed milkwort	Polygala polygama	Native
Rock spikemoss	Selaginella rupestris	Native
Rough-headed bush clover	Lespedeza capitata	native
Rough hedge-nettle	Stachys hispida	Native
Sand cherry	Prunus pumila	Native
Showy goldenrod	Solidago speciosa	Native
Ciliate leaved paspalum	Bouteloua curtipendula	Native
Silky aster	Aster sericeus	Native
Silky aster Silky prairie clover		Native Special concern
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